

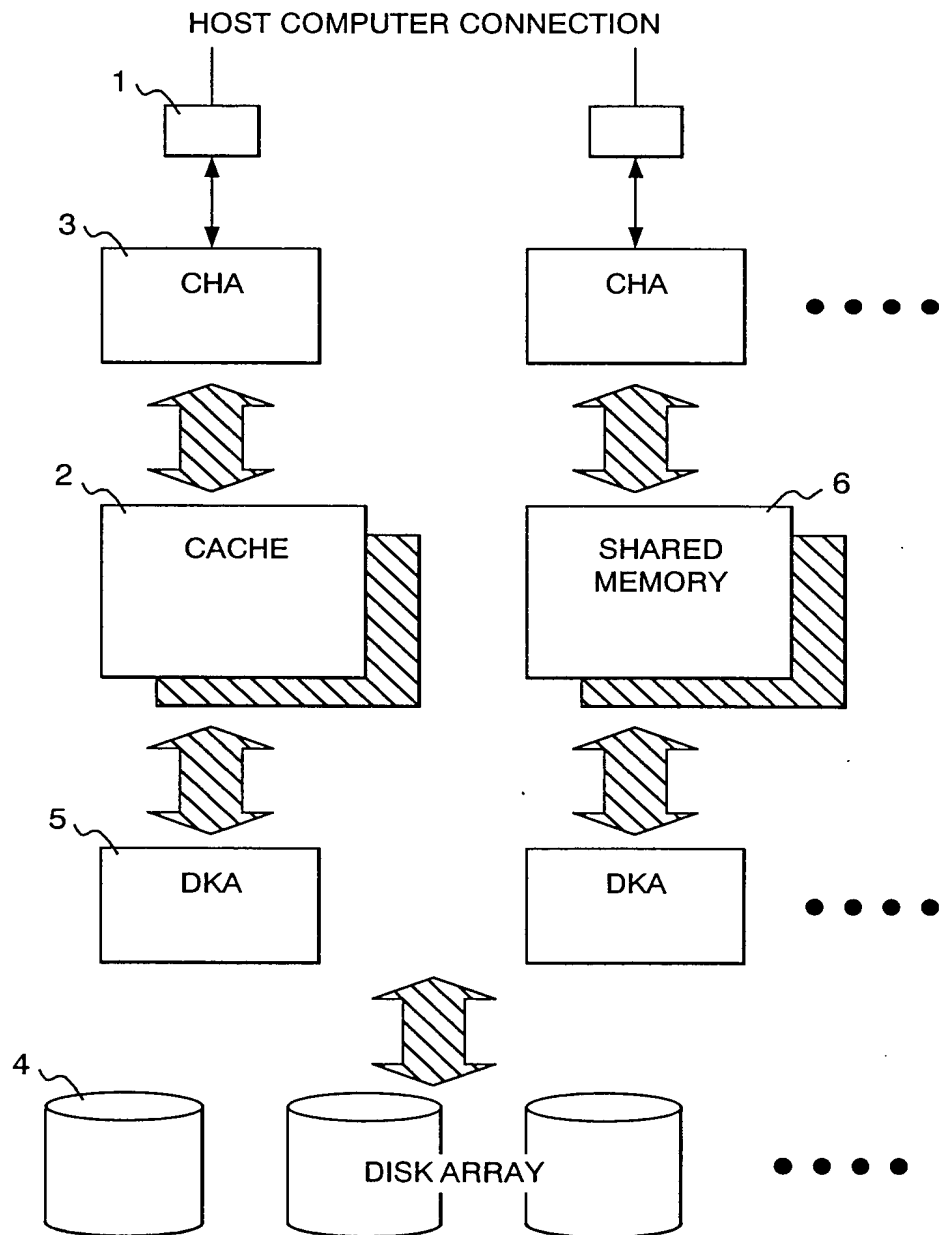
FIG. 1

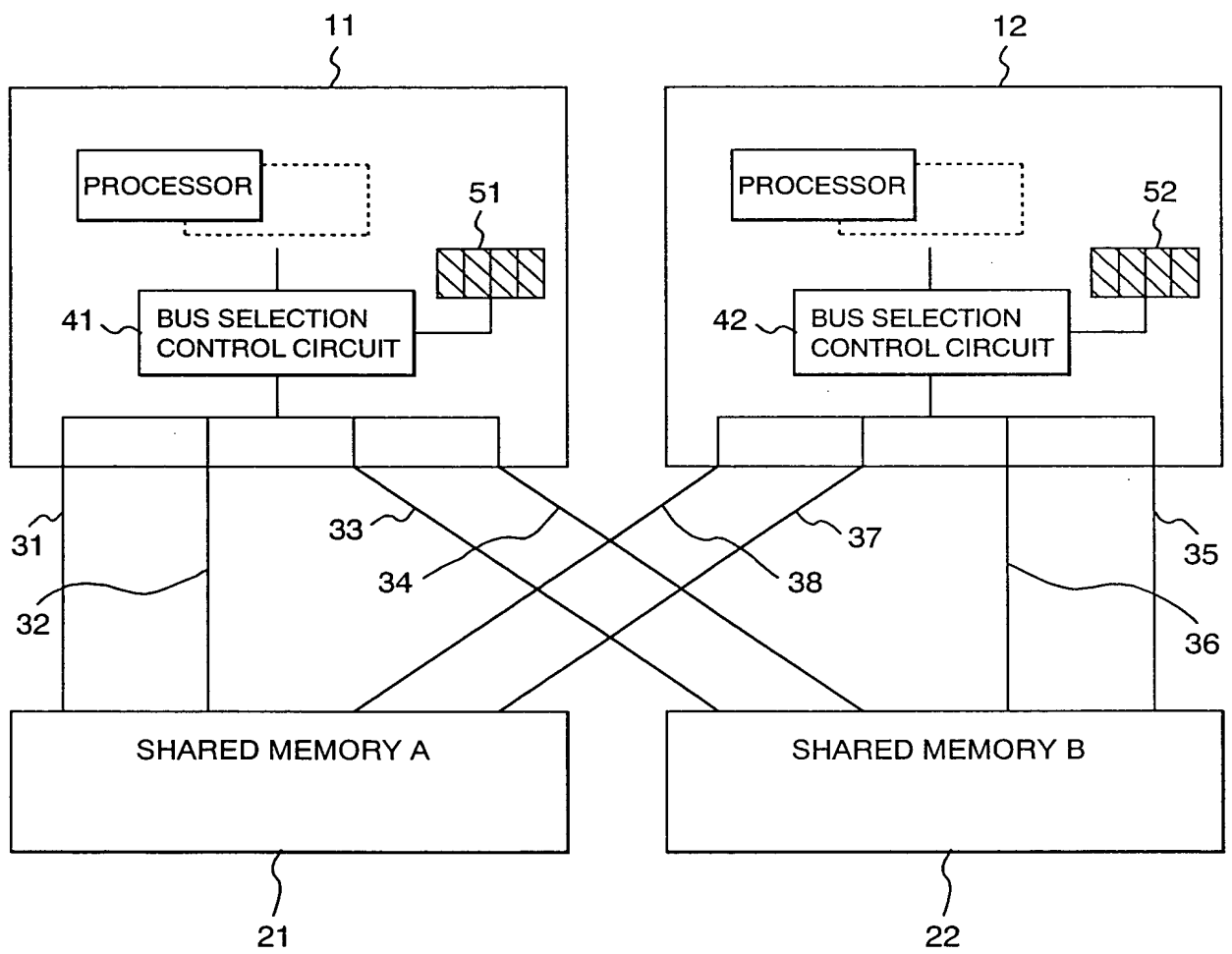
FIG. 2

FIG. 3

SET VALUE OF EACH BIT OF THE REGISTER				ACCESS PATH
A-1	A-2	B-1	B-2	
0	0	0	0	PLANE A = DISTRIBUTED PATH, PLANE B = DISTRIBUTED PATH
1	0	0	0	PLANE A = USES PATH A-1, PLANE B = DISTRIBUTED PATH
0	1	0	0	PLANE A = USES PATH A-2, PLANE B = DISTRIBUTED PATH
0	0	1	0	PLANE A = DISTRIBUTED PATH, PLANE B = USES PATH B-1
0	0	0	1	PLANE A = DISTRIBUTED PATH, PLANE B = USES PATH B-2
1	0	1	0	PLANE A = USES PATH A-1, PLANE B = USES PATH B-1
1	0	0	1	PLANE A = USES PATH A-1, PLANE B = USES PATH B-2
0	1	1	0	PLANE A = USES PATH A-2, PLANE B = USES PATH B-1
0	1	0	1	PLANE A = USES PATH A-2, PLANE B = USES PATH B-2

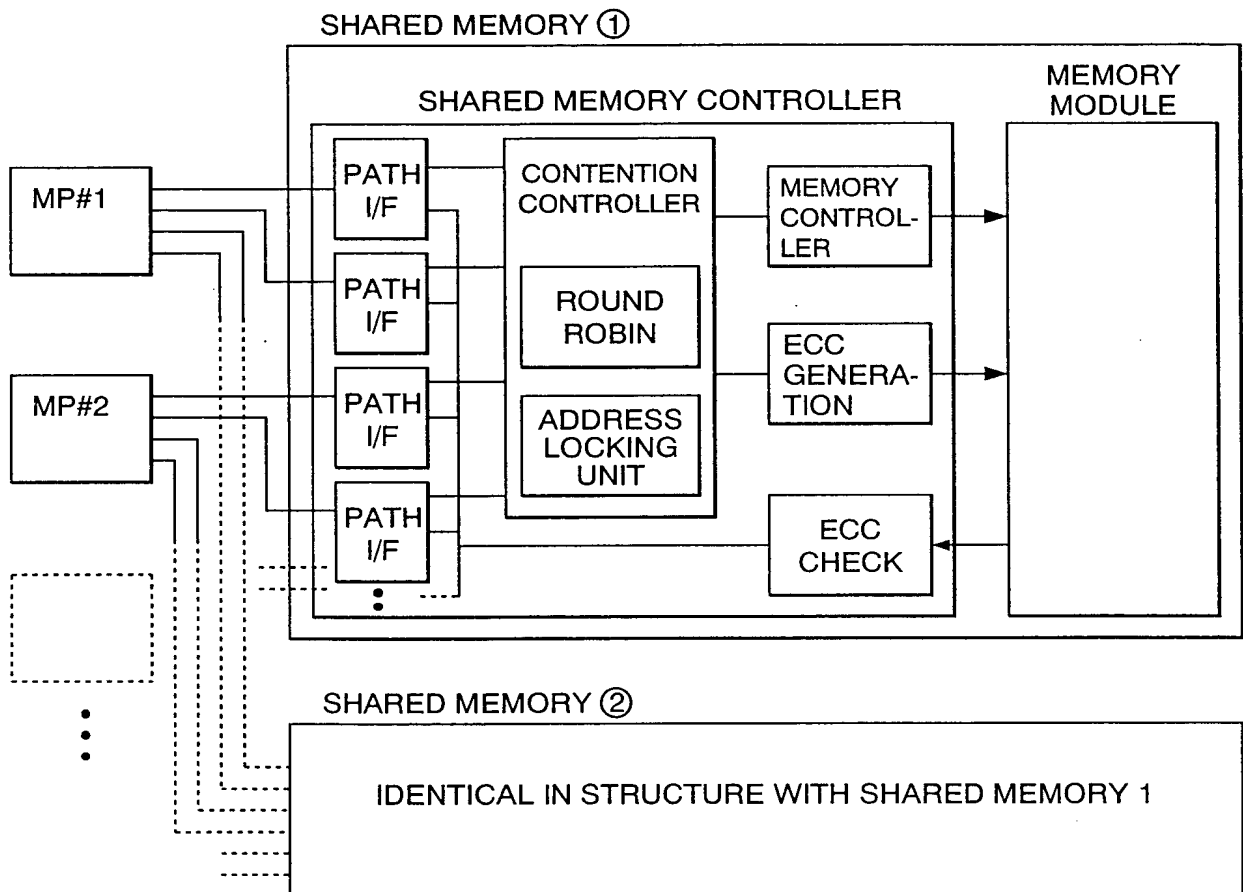
FIG. 4

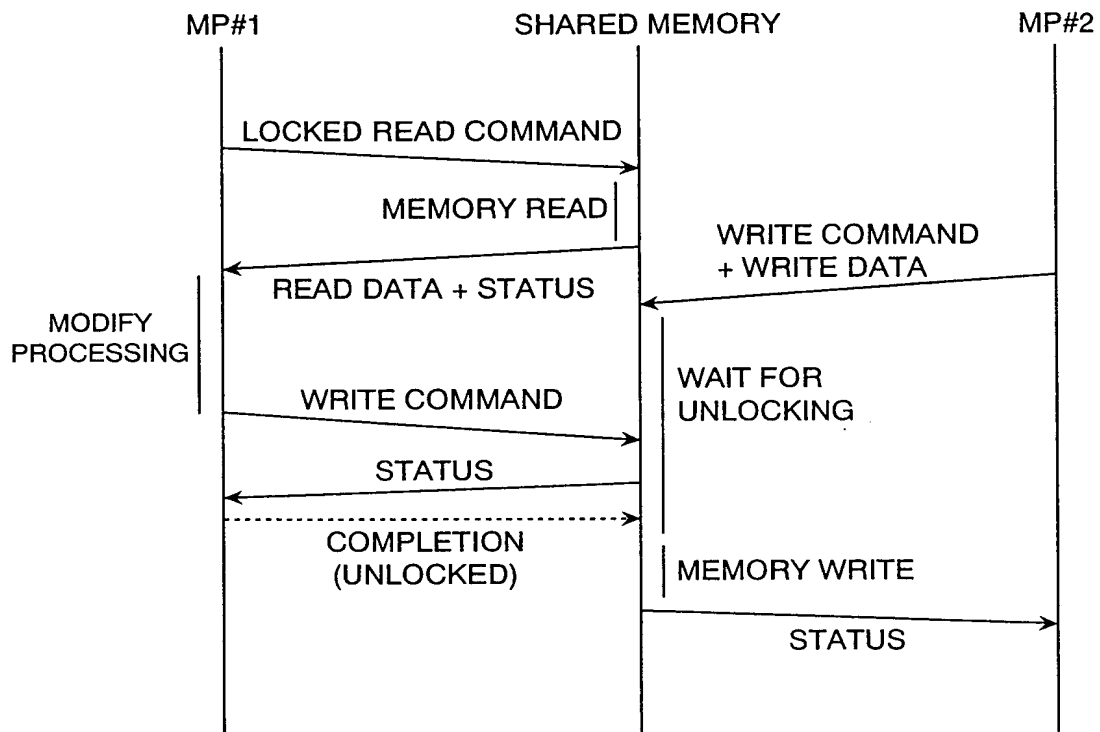
FIG. 5

FIG. 6

ACCESS TEST RESULTS				ASSUMED FAULT LOCATION
PATH 1A (a)	PATH 1A (b)	PATH 1B (a)	PATH 1B (b)	
OK	OK	OK	OK	NO FAULT
NG	OK	OK	OK	PATH 1A (a)
OK	NG	OK	OK	PATH 1A (b)
OK	OK	NG	OK	PATH 1B (a)
OK	OK	OK	NG	PATH 1B (b)
NG	NG	OK	OK	SHARED MEMORY A
NG	OK	NG	OK	FAULT MULTIPLEXED ? (PROCESSOR)
NG	OK	OK	NG	FAULT MULTIPLEXED ? (PROCESSOR)
OK	NG	NG	OK	FAULT MULTIPLEXED ? (PROCESSOR)
OK	NG	OK	NG	FAULT MULTIPLEXED ? (PROCESSOR)
OK	OK	NG	NG	SHARED MEMORY B
NG	NG	NG	OK	FAULT MULTIPLEXED ? (PROCESSOR)
NG	NG	OK	NG	FAULT MULTIPLEXED ? (PROCESSOR)
NG	OK	NG	NG	FAULT MULTIPLEXED ? (PROCESSOR)
OK	NG	NG	NG	FAULT MULTIPLEXED ? (PROCESSOR)
NG	NG	NG	NG	PROCESSOR

FIG. 7